

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION
SPONSORED PROJECT TERMINATION

Date: 6/24/81

Project Title: Graduate Training in Water Quality Management

Project No: E-20-542

Project Director: F. Michael Saunders/Dr. F. G. Pohland

Sponsor: US Environmental Protection Agency

Effective Termination Date: 3/31/79

Clearance of Accounting Charges: 3/31/79

Grant/Contract Closeout Actions Remaining:

- ☐ Final Invoice and Closing Documents
- ☐ Final Fiscal Report
- ☒ Final Report of Inventions
- ☐ Govt. Property Inventory & Related Certificate
- ☐ Classified Material Certificate
- ☐ Other _____

Assigned to: Civil Engineering (School/Library)

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FINAL REPORT

GRADUATE TRAINING IN WATER QUALITY MANAGEMENT

EPA Grant No. T900111

Georgia Tech No. E-20-542

September 16, 1976 - March 30, 1979

Introduction

The supplemental information contained hereing provides a final accounting of student support and summary of project accomplishments during the latter stages of the graduate training effort in Water Quality Management supported by the Environmental Protection Agency. This effort, initially administered through the Environmental Resources Center and the Office of Interdisciplinary Programs at the Georgia Institute of Technology, was eventually transferred to the School of Civil Engineering on September 16, 1976. At the time of transfer, only a small residual of grant support remained; this was used to provide the student support indicated as part of the following narrative. Information is presented, however, on student support throughout the total grant period in order to underscore and more thoroughly detail the effectiveness of the project in meeting its training goals.

Student Participation

During the period covered by the subject grant, a total of 16 students received graduate education support in the form of tuition and fees and/or stipends. The amount of this support, together with complementary information, is indicated in Table 1. Where information or contact still existed, the eventual degree designation and employment are also indicated in Table 1 particularly for those students who completed graduate programs in Sanitary (MSSE) or Civil Engineering (MSCE) through the School of Civil Engineering. The financial support afforded to the trainees was issued on the basis of need, qualification and availability of funds.

Program Commentary and Accomplishments

The major goal of the training program in Water Quality Management at the Georgia Institute of Technology has been to attract students into the field and to provide them opportunities for quality education on the graduate level. Throughout its tenure, the program has steadily accomplished this goal by combining carefully

TABLE 1: Student Information and Financial Support

| Support Period | Name of Student (Degree) | Financial Support | | Employer |
|----------------|----------------------------|-------------------|---------|--------------------------------------------|
| | | Tuition and Fees | Stipend | |
| 1975 - 1976* | Wilma Alers (MS) | 2354.00 | 1500.00 | Unknown |
| | Jeffrey Briggs (MCP) | 614.50 | 450.00 | Unknown |
| | Gerald Day | 1965.00 | 1500.00 | Unknown |
| | Joseph Langley | 659.50 | 900.00 | Unknown |
| | Raymond Lawing (MSCE) | 1965.00 | 1500.00 | Law Engineering, Atlanta, GA |
| | Charles Leder (MSSE) | 2354.00 | 1500.00 | Infilco Degremont, Inc., Richmond, VA |
| | Jon Monson | 868.00 | 1350.00 | Engineering Science, Houston, TX |
| | Edward Mudd | 145.39 | - | Unknown |
| | Richard Pendergrass (MSSE) | 451.00 | 600.00 | Williams, Sweitzer and Barnum, Rome, GA |
| | Stanley Reigger (MCP) | 1739.50 | 900.00 | Unknown |
| | Steven Todd (MSCE, MCP) | 615.50 | - | Unknown |
| | Robert Ward | 1791.50 | 900.00 | Zimmerman, Evans & Leopold, Atlanta, GA |
| | James Williams | 225.50 | 500.00 | Unknown |
| 1976 - 1977* | Wilma Alers (MS) | - | 300.00 | Unknown |
| | Jeffrey Griggs (MCP) | 225.50 | 300.00 | Unknown |
| | Gerald Day | - | 300.00 | Unknown |
| | Joseph Langley | - | 150.00 | Unknown |
| | Raymond Lawing (MSCE) | 225.50 | 300.00 | Law Engineering, Atlanta, GA |
| | Charles Leder (MSSE) | - | 300 | Infilco Degremont, Inc., Richmond, VA |
| | Jon Monson | - | 300.00 | Engineering Science, Houston, TX |
| | Richard Pendergrass (MSSE) | 225.50 | 600.00 | Williams, Sweitzer and Barnum, Rome, GA |
| | Stanley Reigger (MCP) | 231.50 | 300.00 | Unknown |
| 1977 - 1978** | Robert Ward | - | 150.00 | Zimmerman, Evans & Leopold, Atlanta, GA |
| | Robert Sackellares (MSSE) | - | 663.04 | Weyerhaeuser, Tacoma, WA |
| 1978 - 1979** | Carolyn Handell | - | 750.00 | City of Atlanta, Atlanta, GA |
| | Robert Sackellares (MSSE) | - | 500.00 | Weyerhaeuser, Tacoma, WA |
| | Herbert Timmerman (MSSE) | - | 984.50 | Jordan, Jones and Goulding, Atlanta, GA |

TABLE 1: (continued...)

NOTE: MS = Master of Science (undesignated)
MCP = Master of City Planning
MSCE = Master of Science in Civil Engineering
MSSE = Master of Science in Sanitary Engineering

*Program administered through the Environmental Resources Center (Dr. Kahn)

**Program administered through the School of Civil Engineering (Dr. Pohland, Dr. Saunders)

conceived curricula with research opportunities in water quality management. Clear evidence of this achievement has been provided by the professional functionality of graduates from the program and the impact of their activities in the environmental engineering or sciences professions.

As with many other companion programs throughout the country, this program was terminated when EPA graduate training emphasis and support subsided. This demise of training grant support in water quality management did influence and restrict the flexibility of approach and variety of students previously embraced and led to a general retrenchment of emphasis within the sanitary (environmental) engineering program in Civil Engineering at Georgia Tech. This narrowing of disciplinary involvement, although decreasing the breadth of participation, did provide a more discrete identity and recognition of environmental engineering needs and support requirements within the Institute. As a consequence, the training effort tended to provide the initial stimulus and incentives for growth and strengthening of academic and research programs in all areas of environmental quality and pollution control.

Whereas the program at Georgia Tech benefited greatly through the years from EPA training grant support, it regrets the decision to terminate or dramatically reduce training support within the academic community at the professional and/or graduate level. At a time when the field of environmental quality control and management requires increasing numbers of well qualified professionals with commensurate academic training, it would seem prudent to provide such assistance and incentives in order to help encourage promising students to continue their formal education and to help satisfy this pressing personnel need. This program would endorse a policy which would provide a continuation of funding for graduate education in the field of environmental quality control to educational institutions on the basis of merit including program capabilities and past records of achievement. The graduate program in environmental engineering at Georgia Tech possesses such qualifications and has demonstrated its productivity and effectiveness as recorded by the activities supported by the training grant in Water Quality Management.